

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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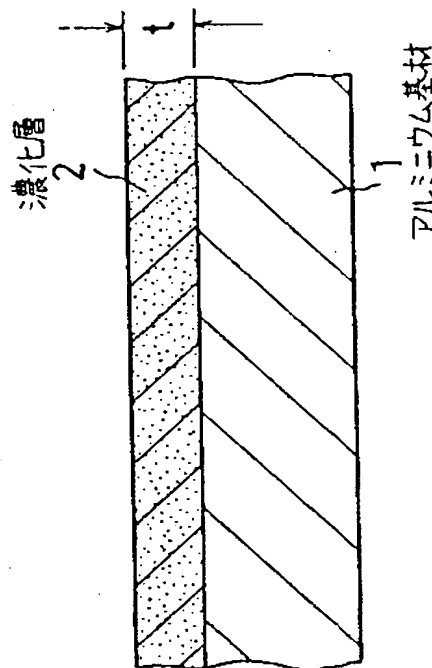
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APPLICANT : SHOWA ALUM CORP;

INVENTOR : SUKIMOTO KISHIN;

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TITLE : NEUTRON-ABSORPTIVE ALUMINUM  
ALLOY



ABSTRACT : PURPOSE: To manufacture the title material having desired mechanical characteristics by covering the surface of an aluminum matrix with a concentrated layer of neutron-absorptive elements.

CONSTITUTION: The surface of the matrix 1 consisting of aluminum or its metal is covered and formed with the neutron-absorptive elements (B, Sm, Gd, etc.,) or its compounds (B<sub>4</sub>C, etc.,) by a thermal spraying method, etc. The thickness of the concentrated layer 2, (t), is preferably regulated to 50~1000 $\mu$ . By this method, the neutron-absorptive aluminum material having the desired characteristics such as strength and workability can be obtd.

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